## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JF2004/017234

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>2</sup> F16C33/34, 33/54, 33/58, 19.	/46 F16UEZ/02 Z04B2Z/02	
Inc. c1 (10c33/34, 33/34, 33/36, 13.	/46, F16H5//UZ, F04B2//U	8
According to International Patent Classification (IPC) or to both natio	nal classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by Int.Cl <sup>7</sup> F16C33/30-33/58, 19/00-19/50	classification symbols) D, F16H57/02, F04B27/08	
Kokai Jitsuyo Shinan Koho 1971-2005	Poroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	1994-2005 1996-2005
Electronic data base consulted during the international search (name of	o data base and, where practicable, scarch to	erms usea)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
Y JP 2003-83337 A (NSK Ltd.), 19 March, 2003 (19.03.03), (Family: none)		1-10
Y JP 2003-269468 A (Koyo Seik 25 September, 2003 (25.09.03 Claims & US 2003/0198420 A1 & E		1-10
Y JP 2000-213546 A (NTN Corp. 02 August, 2000 (02.08.00), Far. Nos. [0020] to [0021]; (Family: none)		6-10
X Further documents are listed in the continuation of Box C.	See patent family annex.	-
Special categories of cited documents:  A" document defining the general state of the art which is not considered to be of particular relevance  E" earlier application or patent but published on or after the international filing date  it document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the an document member of the same patent family		
Date of the actual completion of the international search 18 February, 2005 (18.02.05)	Date of mailing of the international sea 15 March, 2005 (15	
Name and mailing address of the ISA/  Japanese Patent Office  Faccinite No.		

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PCT/JP2004/017234

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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P.	<pre>JP 2003-287035 A (NSK Ltd.), 10 October, 2003 (10.10.03), (Family: none)</pre>	3-4,9
A	JF 2003-279425 A. (NSK Ltd.), 02 October, 2003 (02.10.03), (Family: none)	1-10
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